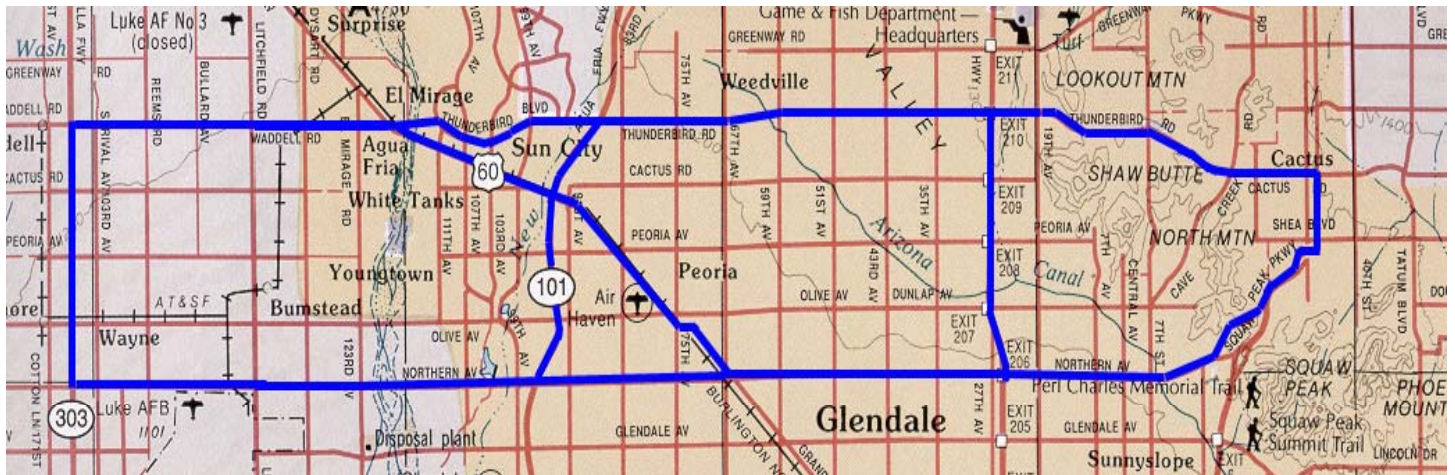


# EAST-WEST MOBILITY STUDY

## ***WORKING PAPER # 3 – DRAFT ESTIMATED FUTURE TRAFFIC DEMAND AND LEVEL OF SERVICE***



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## I. EXECUTIVE SUMMARY

The East-West Mobility Study (Study) is one element of the Maricopa Association of Government's (MAG) Regional Transportation Planning Process. The Study area is bounded by Thunderbird / Waddell Road on the north to Northern Avenue on the south; and Loop 303 on the west to State Route (SR) 51 on the east. The Study will assess options for east-west traffic flow improvements within the project area. The review of the socio-economic data showed substantial growth in population, dwelling units and employment. The future traffic demand shows increases in vehicle travel on all major arterials with the highest increases on the freeway system. The level of service decreased on many facilities with the freeway system at level of service E-F in the year 2020.

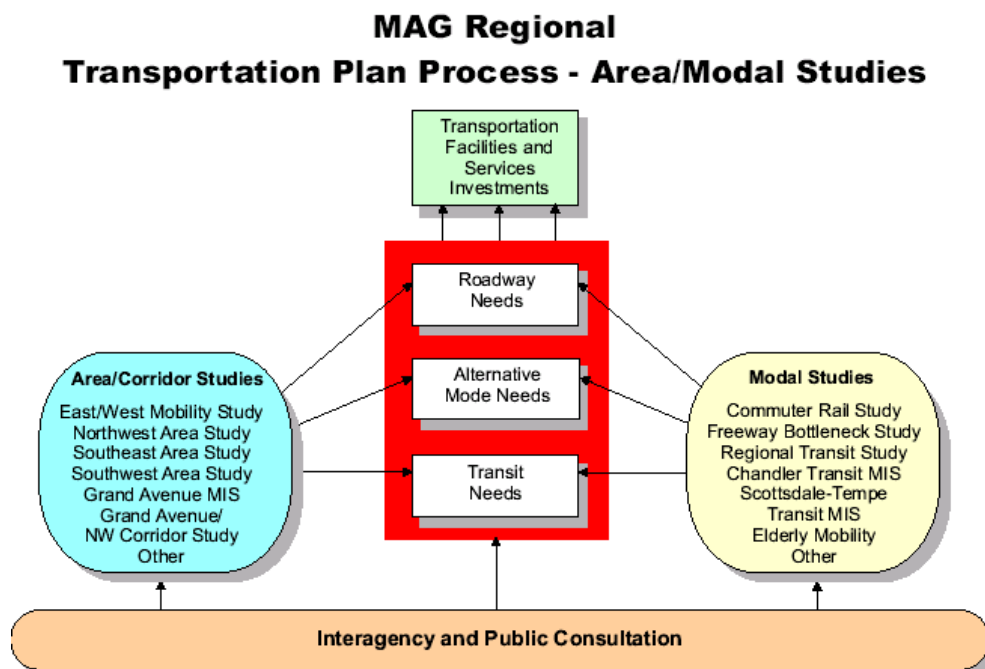
## II. INTRODUCTION

This working paper is intended to address future socio-economic projections of households and employment, estimated future traffic demand, and level of service within the identified study area. This paper has also been prepared to inform the affected public and transportation decision makers about the future conditions and level of service within the study area.

## III. STUDY BACKGROUND

Maricopa County is expected to continue to experience major population increases and is forecast to grow from approximately 3.1 million in 2000 to 4.5 million in 2020. This expected growth is driven by migration from other states and immigration from Latin America. The Regional Transportation Planning Process is intended to address the increased demands associated with these population increases. The East-West Mobility Study is one part of the overall MAG Regional Transportation Planning Process. This process is shown in Figure 1.

**Figure 1 – MAG Regional Transportation Planning Process**



#### **IV. STUDY AREA**

The study area is bounded by Thunderbird / Waddell Road on the north to Northern Avenue on the south; and Loop 303 on the west to SR 51 on the east. Figure 2 shows a map of the study area.

#### **V. OVERVIEW OF THE EAST-WEST MOBILITY STUDY PROCESS**

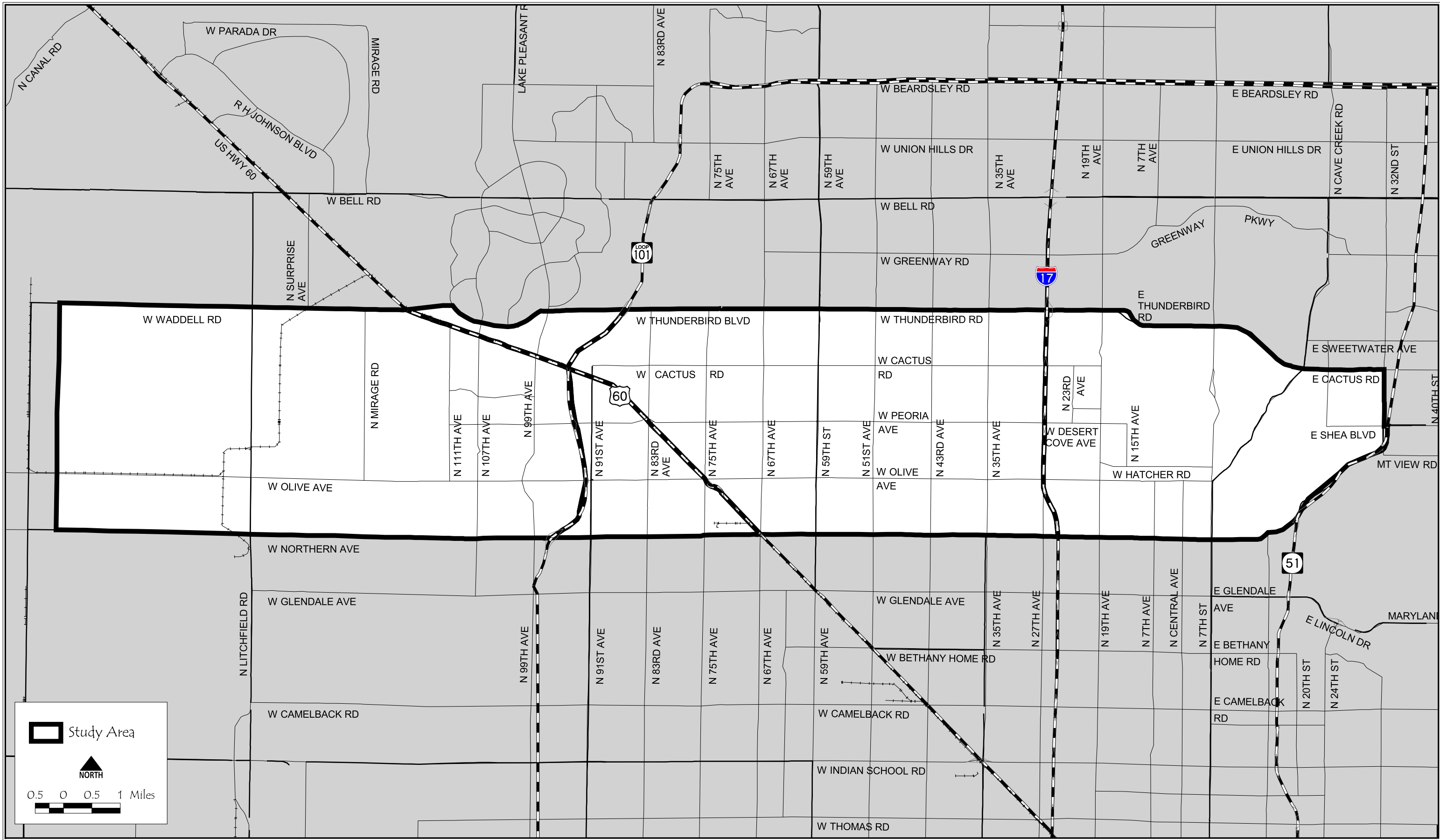
The study will assess options for east-west traffic flow improvements within the project area and will include an assessment of current traffic demands and facility characteristics, estimates of future traffic demands, level of service, development of alternative East/West Mobility Strategy Packages, and a screening process that leads to a Preferred East-West Mobility Strategy Package. Evaluation criteria will be developed as the study progresses. This working paper will contribute to and give insight for the development of transportation alternatives.

#### **VI. PUBLIC INVOLVEMENT / COORDINATION**

Public involvement opportunities will be provided throughout the decision-making process. The Study includes comprehensive agency and public involvement components to ensure active community and governmental agency involvement throughout the study process. Public meetings will be used to present study findings and to solicit public input on project issues, development of alternatives, and evaluation of alternatives and final East/West Mobility Study recommendations.

#### **VII. SOCIO ECONOMIC DATA**

The socio economic data is used as input for generating person and vehicle trips for the travel demand model. The travel demand model will be used to forecast daily traffic volumes and traffic patterns. This section addresses a review of the socio economic data for the study area. The existing (year 2001) as well as future years 2010 and 2020 were reviewed and evaluated. **Figure 3** shows the Traffic Analysis Zones (TAZ) that had the greatest population and household increases from the 2001 to 2020. Most of the major housing developments over the next twenty years are located within the city limits of Peoria and Glendale. As shown in Table 1, total population in the study area increases from 315,000 in 2001 to 341,800 in 2010, and to 346,000 by the year 2020. The increase in population from 2001 to 2020 is over 30,900 or 9.8 percent increase. The number of households in the study area increases by a similar number of 10.2 percent or 12,971. **Figure 4** illustrates where the employment growth will locate over the next twenty years (2001-2020). The top ten traffic analysis zones for increased employment are located in Glendale, Peoria, and the western part of Maricopa County. Total employment in 2001 is 118,500. By the year 2020 total employment will increase by 18,400 employees or to a total of 137,000 employees. This represents an increase of 15.5 percent. A review of persons per household by traffic analysis zone was conducted to determine the reasonableness of each TAZ. All of the traffic analysis zones within the study area fall within the range of 1.00 to 3.82 persons per household. The lower end represents multi-family dwelling units while the higher number represents typical single-family dwelling units. The average for all traffic analysis zones is 2.49 persons per household. The socio economic data for the study area for the years 2001, 2010, and 2020 is presented in **Appendix A**.

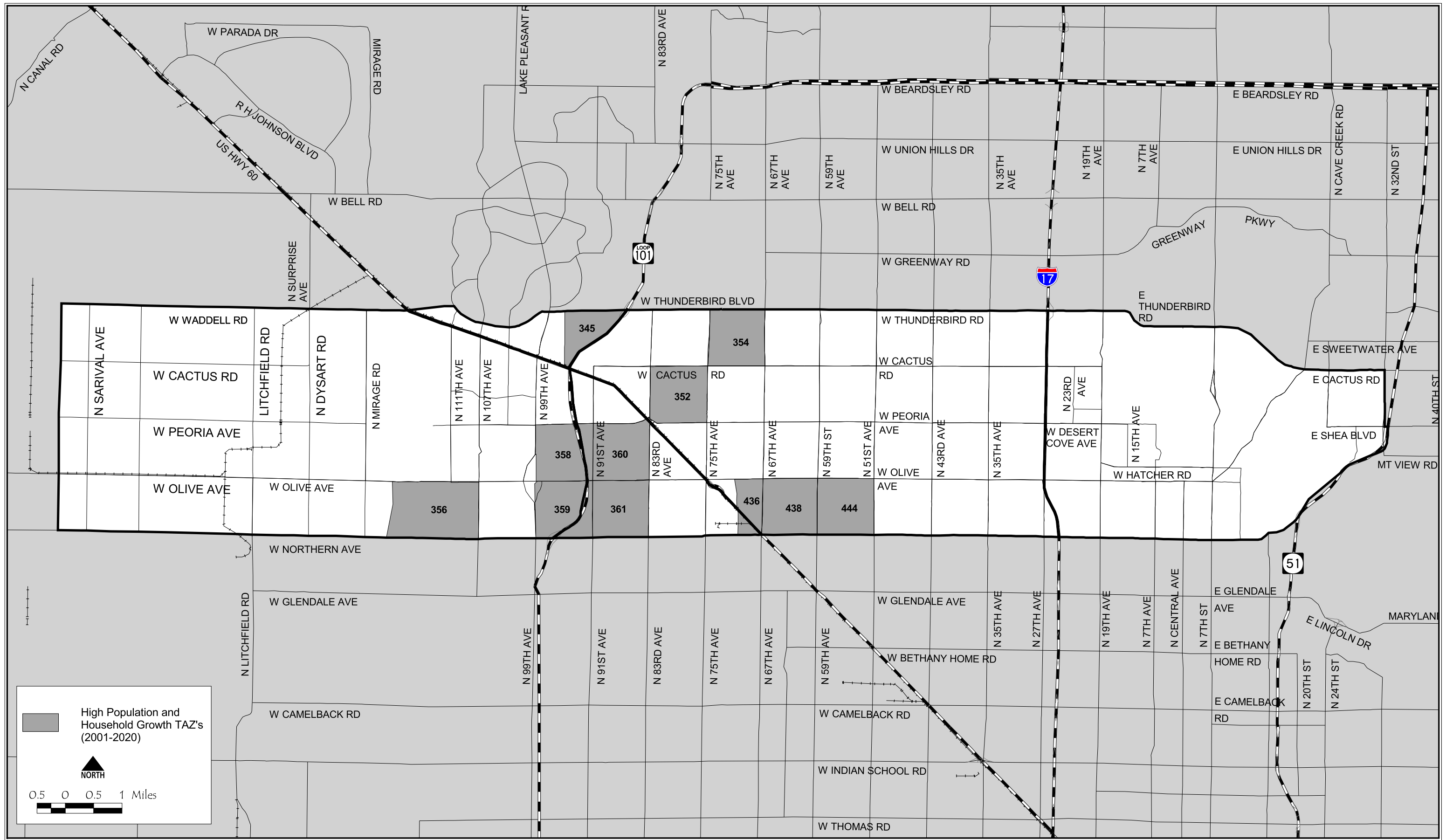


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FIGURE 2:  
Map of Study Area  
East-West Mobility Study



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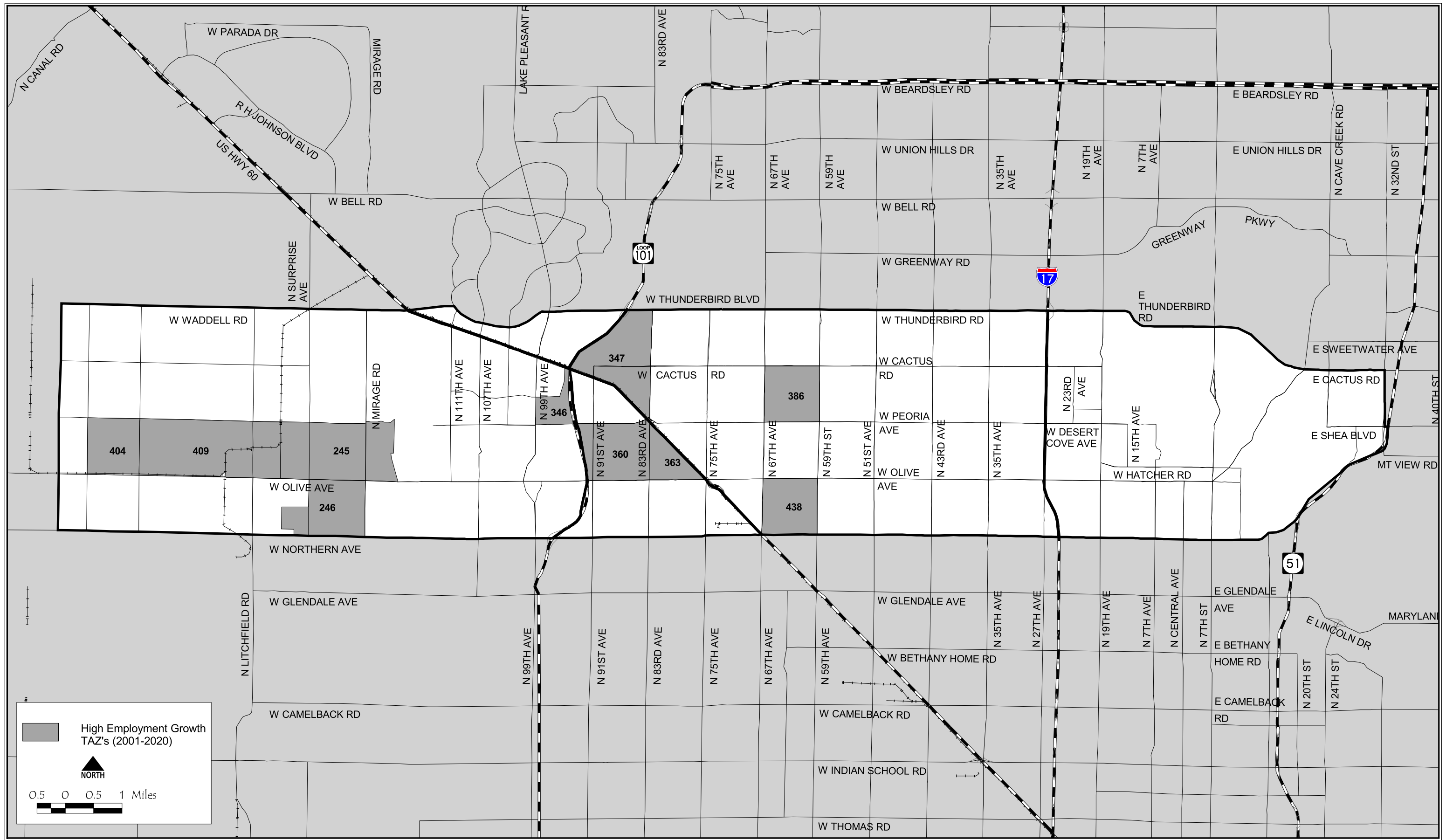
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FIGURE 3:  
High Population and Household Growth (2001-2020)

East-West Mobility Study





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FIGURE 4:  
High Employment Growth TAZ's (2001-2020)

East-West Mobility Study

There are approximately 88 traffic analysis zones within the East/West Mobility Study area. The existing (2001) population of the area is 315,092 persons. There are 126,691 existing households with an average of 2.48 persons/household. The study area currently supports 118,554 employees with 31 percent in retail, 25 percent in office, 20 percent in industrial, 13 percent in other, and 11 percent in the public employment sectors. Post high school enrollment within the study area is at 23,769 students.

**TABLE 1 – Socio-Economic Data Summary**

Year	Total Population	Total Households	Employment						Post High School Enrollment	Total Dwelling Units
			Other	Public	Retail	Office	Industrial	Total		
2001	315,092	126,691	15,305	12,539	36,194	30,064	24,452	118,554	23,769	126,428
2010	341,799	137,696	16,647	13,068	40,881	32,239	26,036	128,871	24,798	137,073
2020	346,048	139,662	17,026	14,052	44,286	34,284	27,307	136,955	25,498	137,920

In the year 2010 population will increase to 341,799 or 8.4 percent from 2001. Households will increase by 11,005 to 137,696 or 8.6 percent. Employment will increase by 10,317 to a total of 128,871 or an 8.7 percent increase. Post high school enrollment increases by just over a 1,000 students to 24,798.

By the year 2020 population will increase to 346,048 or a 1.2 percent increase since 2010. Households will increase by 1,966 to 139,662 or 1.4 percent increase over a 10-year period. Employment will increase by 8,084 to a total of 136,955 or a 6.3 percent increase. Post high school enrollment increases by just over a 700 students to 25,498.

#### **VIII. ESTIMATED FUTURE TRAFFIC DEMAND**

The Long Range Transportation Plan (LRTP) for the Maricopa Association of Governments extends through the Year 2020. The three different roadway networks (2001, 2010, 2020) are tabulated in **Appendix B**. Any traffic/highway input data (area type, facility type, or number of lanes) that changes between 2001 and 2010 is highlighted. Traffic/highway input data (area type, facility type, or number of lanes) that changes between 2010 and 2020 is also highlighted. These changes to the year 2020 are show in **Figure 5**. The following highway capacity improvements are in addition to what exists and are identified:

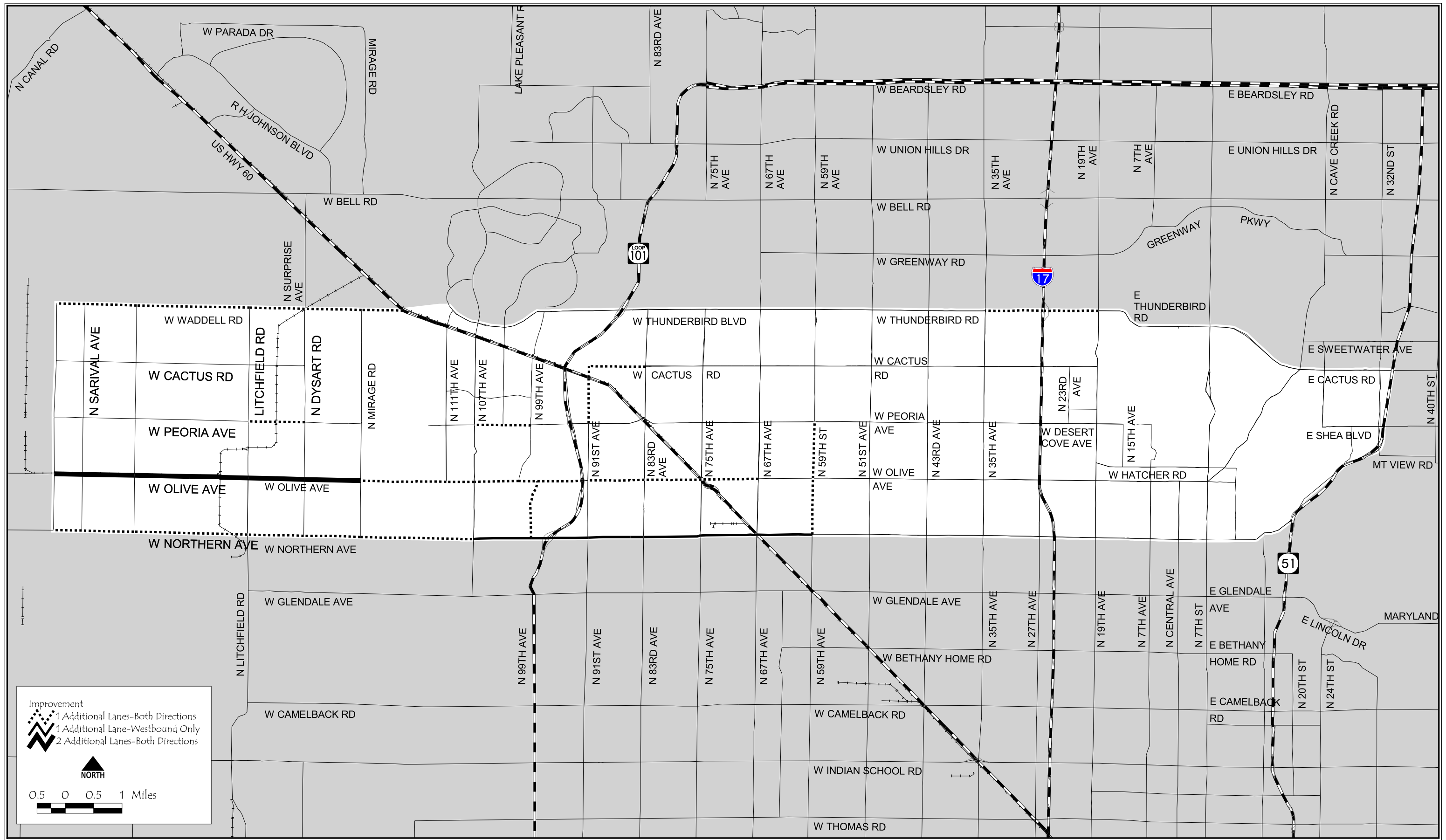
##### **One (1) Additional Lane in Each Direction**

- Waddell Road from Loop 303 to Grand Avenue
- Thunder Bird Road from 35<sup>th</sup> Avenue to 19<sup>th</sup> Avenue
- Cactus Road from 91<sup>st</sup> Avenue to 83<sup>rd</sup> Avenue
- Peoria Avenue from Litchfield Road to Dysart Road
- Peoria Avenue from 107<sup>th</sup> Avenue to 99<sup>th</sup> Avenue
- Olive Avenue from El Mirage Road to 67<sup>th</sup> Avenue
- Northern Avenue from Loop 303 to 107<sup>th</sup> Avenue
- 99<sup>th</sup> Avenue from Olive Avenue to Northern Avenue
- 91<sup>st</sup> Avenue from Cactus Road to Peoria Avenue
- 59<sup>th</sup> Avenue from Peoria Avenue to Northern

##### **Two (2) Additional Lanes in Each Direction**

- Olive Avenue from Loop 303 to El Mirage Road





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FIGURE 5:  
Highway Improvements by 2020  
East-West Mobility Study

### **One (1) Additional Lane Westbound Only**

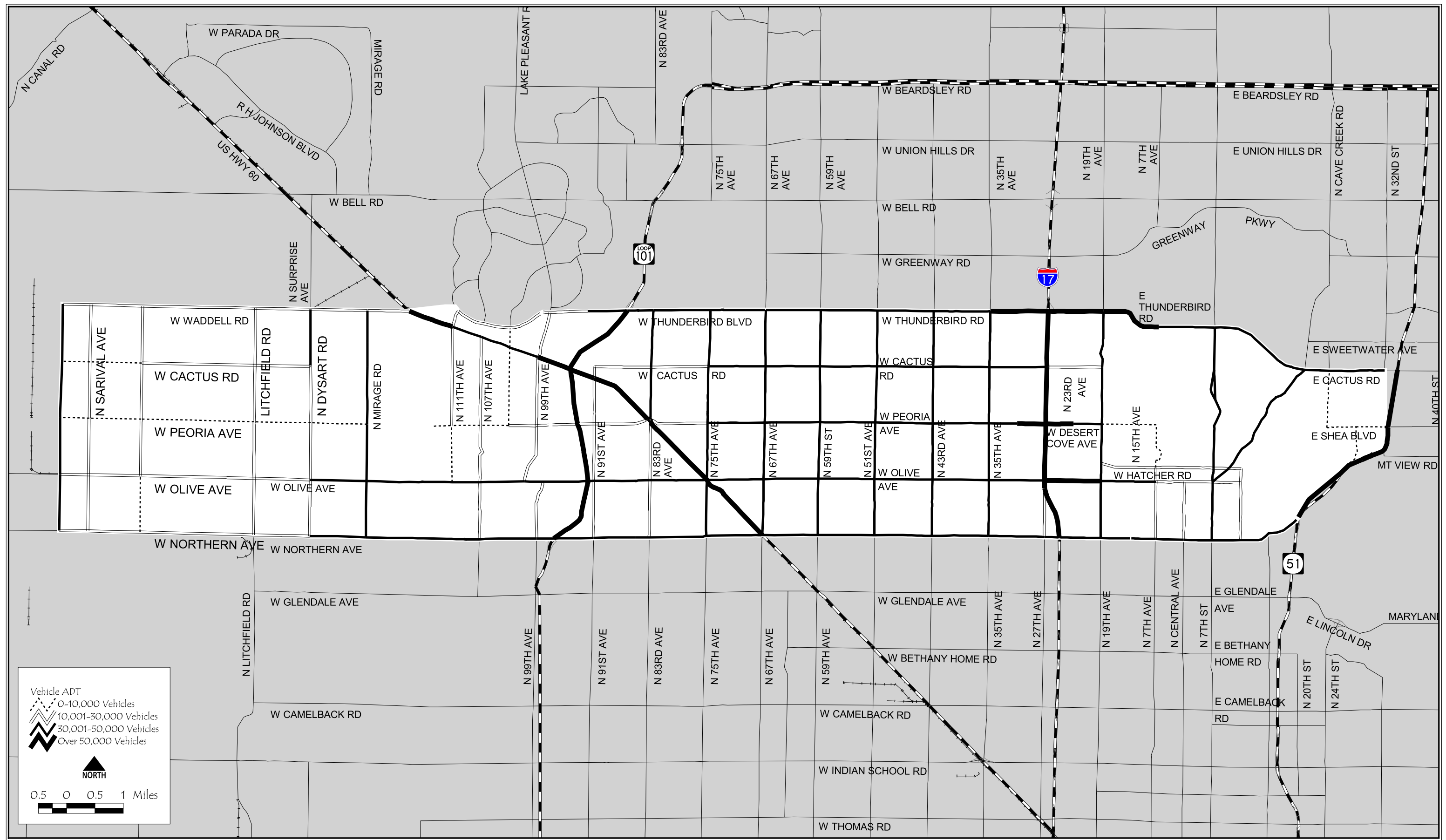
- Northern Avenue from 107<sup>th</sup> Avenue to 59<sup>th</sup> Avenue

For the purposes of this study, it is assumed that these highway capacity projects shown above will be completed by the year 2020.

With the appropriate highway capacity improvements coded in the year 2010 highway network and the appropriate year 2010 socio economic data, daily traffic volumes were generated from the MAG travel demand model. Year 2010 Daily Traffic Volumes are shown in **Figure 6**. The three freeway facilities (SR 51, I-17, and Loop 101) are all over 50,000 vehicles per day. Grand Avenue is carrying over 50,000 vehicles per day west of 111<sup>th</sup> Avenue and between 99<sup>th</sup> Avenue and Loop 101. Otherwise Grand Avenue has between 30,000 to 50,000 daily vehicles. The east/west and north/south major arterial roadways between SR 51 and 59<sup>th</sup> Avenue and between Thunder Bird Road and Northern Avenue carry between 30,000 and 50,000 vehicles daily. The east/west and north/south major arterial roadways between 67<sup>th</sup> Avenue and El Mirage Road and between Thunder Bird Road and Northern Avenue carry between 10,000 and 30,000 vehicles daily. The east/west and north/south roadways between Dysart Road and Loop 303 and between Waddell Road and Northern Avenue carry between a few hundred and 10,000 vehicles per day.

With the appropriate highway capacity improvements coded in the year 2020 highway network and the appropriate year 2020 socio economic data, daily traffic volumes were generated from the MAG travel demand model. Year 2020 Daily Traffic Volumes are shown in **Figure 7**. The three freeway facilities (SR 51, I-17, and Loop 101) continue to carry over 50,000 vehicles per day. Grand Avenue carries over 50,000 vehicles per day west of 111<sup>th</sup> Avenue and between 99<sup>th</sup> Avenue and Northern Avenue. Grand Avenue has 30,000 to 50,000 daily vehicles between 111<sup>th</sup> Avenue and 99<sup>th</sup> Avenue. The east/west and north/south major arterial roadways between SR 51 and 75<sup>th</sup> Avenue and between Thunder Bird Road and Northern Avenue carry between 30,000 and 50,000 vehicles daily. There is more daily traffic further west (from 59<sup>th</sup> Avenue to 75<sup>th</sup> Avenue) than in 2010. The east/west and north/south major arterial roadways between 83<sup>rd</sup> Avenue to Loop 303 and between Thunder Bird Road/Waddell Road and Northern Avenue carry between 10,000 and 30,000 vehicles daily. The major difference between year 2010 traffic and year 2020 traffic is that as the development is completed in the western part of the study area the traffic volume continues to increase and move further west.





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FIGURE 7:  
Year 2020 Daily Traffic Volumes  
East-West Mobility Study

## IX. LEVEL OF SERVICE

The Volume/Capacity (V/C) ratio is a ratio that is calculated by taking the projected daily vehicle volume and dividing by the capacity of the roadway. This is commonly known as the V/C ratio. A V/C ratio can be equated to a level of service value. Level of service values of A, B, and C equal a V/C ratio range of 0.0 to 0.80. Level of service D equals a V/C ratio range of 0.81 to 0.90, level of service E equals a V/C ratio range of 0.91 to 1.00 and finally level of service F equals a V/C ratio of 1.01 and greater.

**Figure 8** shows the Volume/Capacity Ratios and Level of Service for the year 2010. The higher levels of service ratios (poorer levels of Services) are most prevalent on the roads on the eastern portion of the study area that is east of 67<sup>th</sup> Avenue.

Roadway segments with level of service D are shown in the following areas:

- Loop 303 from Waddell to Peoria Avenue
- Dysart Road from Waddell Road to Cactus Road
- Waddell Road from Dysart Road to El Mirage Road
- El Mirage Road from Olive Avenue to Northern Avenue
- Grand Avenue from Peoria Avenue to Northern Avenue
- Western section Grand Avenue to the study boundary
- Olive Avenue from 83<sup>rd</sup> Avenue to 67<sup>th</sup> Avenue
- Northern Avenue from 75<sup>th</sup> Avenue to 51<sup>st</sup> Avenue
- Thunder Bird Road from 59<sup>th</sup> Avenue to 35<sup>th</sup> Avenue (eastbound only)
- Cactus Road from 67<sup>th</sup> Avenue to 35<sup>th</sup> Avenue (eastbound only)
- Peoria Avenue from 51<sup>st</sup> Avenue to 35<sup>th</sup> Avenue (eastbound only)
- Thunder Bird Road from 7<sup>th</sup> Avenue to Cave Creek Road

As can be seen from Figure 8 there are a number of roadways segments that have a level of service of E-F in 2010. I-17 from Thunder Bird Road to Northern Avenue plus the approaches to I-17 on Thunder Bird Road, Cactus Road, Peoria Avenue, Olive Avenue, and Northern Avenue all have a level of service (LOS) of E-F. State Route 51 is at LOS E-F for the entire length within the study area. A number of other roadway segments (Olive, Northern, Reems, Litchfield, Sarival, and Loop 303) in the western section of the study area have a LOS of E-F.

**Figure 9** shows the Volume/Capacity Ratios and Level of Service for the year 2020. The number of roadways with a level of service of D or higher has significantly increased from the 2010 data presented in Figure 8.

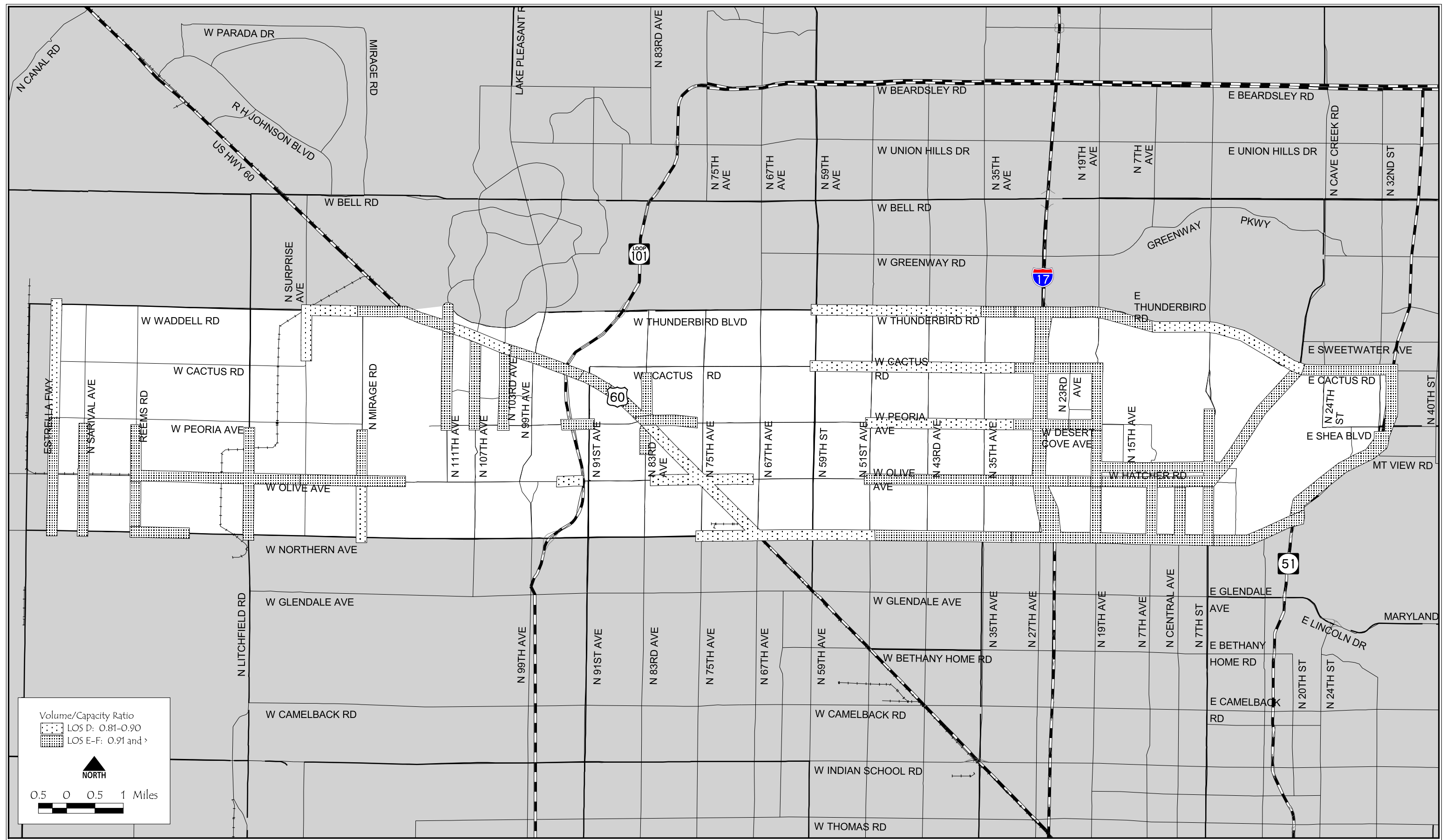
Roadway segments with level of service D are shown in the following areas:

- Loop 303 from Waddell Road to Cactus Road
- Loop 303 from Olive Avenue to Northern Avenue
- El Mirage Road from Peoria Avenue to Olive Avenue
- Olive Avenue from El Mirage Road to 103<sup>rd</sup> Avenue
- Loop 101 at all intersecting interchanges
- Thunder Bird Road from 107<sup>th</sup> Avenue to 91<sup>st</sup> Avenue
- Thunder Bird Road from 59<sup>th</sup> Avenue to 43<sup>rd</sup> Avenue
- Thunder Bird Road from 7<sup>th</sup> Avenue to Cave Creek Road
- Cactus Road from 83<sup>rd</sup> Avenue to 75<sup>th</sup> Avenue
- Cactus Road from 67<sup>th</sup> Avenue to 35<sup>th</sup> Avenue
- Peoria Avenue from 91<sup>st</sup> Avenue to 83<sup>rd</sup> Avenue

- Peoria Avenue from 67<sup>th</sup> Avenue to 43<sup>rd</sup> Avenue
- Olive Avenue from 59<sup>th</sup> Avenue to 35<sup>th</sup> Avenue
- Northern Avenue from 59<sup>th</sup> Avenue to 35<sup>th</sup> Avenue

As can be seen from Figure 9 there are a number of roadways segments that have a level of service of E-F in 2010. I-17 from Thunder Bird Road to Northern Avenue plus the approaches to I-17 on Thunder Bird Road, Cactus Road, Peoria Avenue, Olive Avenue, and Northern Avenue all have a level of service (LOS) of E-F. The level of service to the approaches to I-17 has lengthened and extended further to the east and west from the Interstate. State Route 51 is at LOS E-F for the entire length within the study area. A number of other roadway segments in the western section of the study area have an improved level of service because of the increase in lane capacity (see Figure 5).





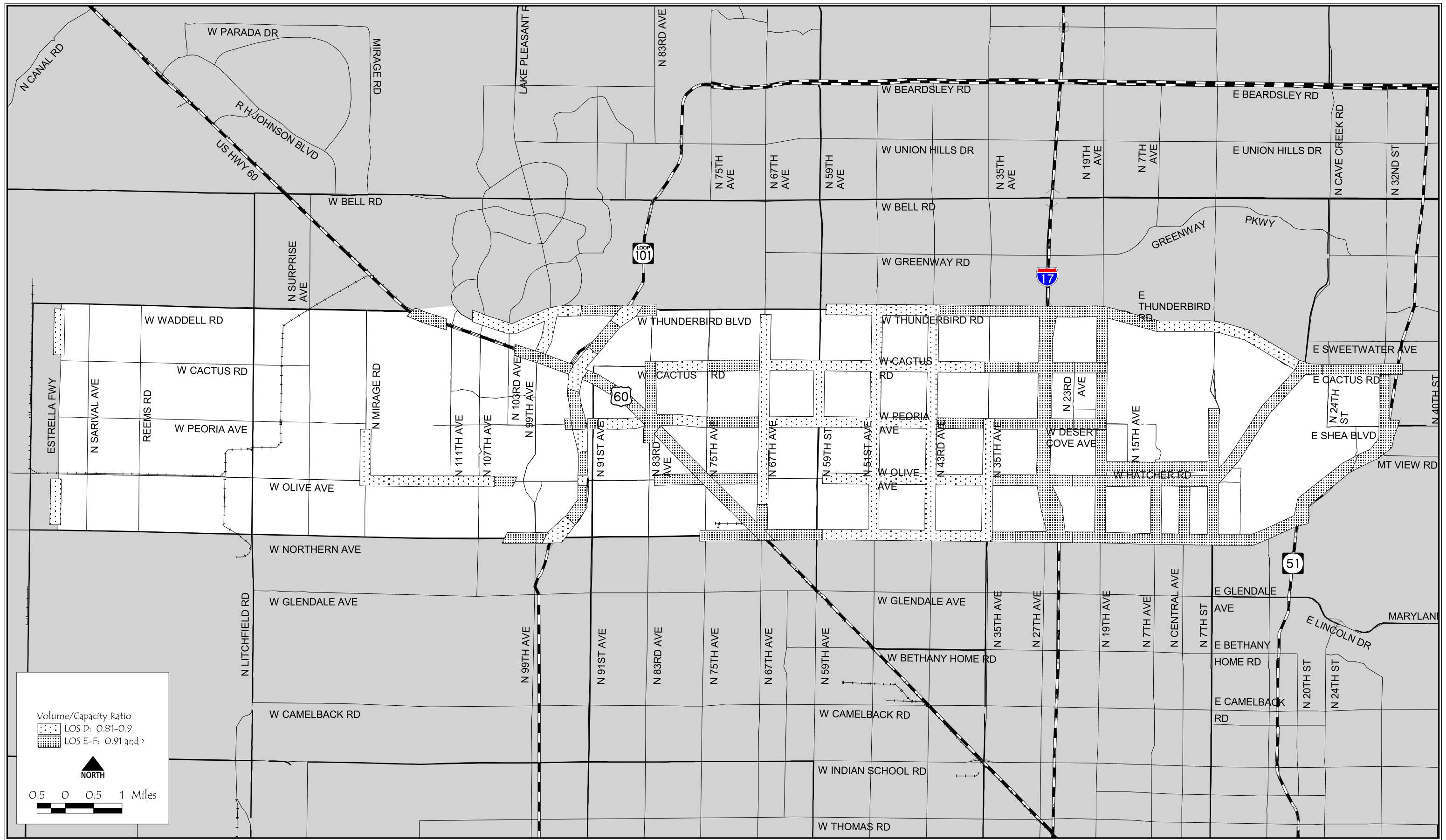
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FIGURE 8:  
Year 2010 Volume/Capacity  
Ratio and LOS

East-West Mobility Study



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FIGURE 9:  
Year 2020 Volume/Capacity  
Ratio and LOS  
East-West Mobility Study

# **APPENDIX A**

Socio Economic Data for 2001, 2010, and 2020

TAZ	Total Population			
	2001	2010	2020	2020-2001
180	0	0	0	0
181	0	0	0	0
183	0	0	0	0
184	6	6	6	0
187	4	4	4	0
188	16	16	16	0
241	293	294	363	70
243	2,509	2,563	2,824	315
244	1,074	1,085	1,112	38
245	1	1	1	0
246	0	0	118	118
247	0	0	4	4
248	3,091	3,220	3,387	296
251	2,196	2,201	2,211	15
252	178	184	196	18
253	1,546	1,549	1,555	9
256	5,679	5,712	5,761	82
257	4,483	4,510	4,552	69
258	3,695	3,701	3,712	17
345	2,785	4,714	4,908	2,123
346	2,386	2,675	2,992	606
347	3,785	4,751	4,751	966
348	4,994	5,271	5,293	299
351	6,650	7,599	7,599	949
352	6,826	7,479	7,927	1,101
354	3,826	4,988	4,993	1,167
355	7,167	7,524	7,546	379
356	3,715	6,146	6,149	2,434
357	3,784	4,784	4,813	1,029
358	3,458	4,502	4,509	1,051
359	666	1,903	1,904	1,238
360	6,129	7,790	7,846	1,717
361	3,350	5,724	5,757	2,407
362	1,993	2,471	2,482	489
363	158	158	158	0
364	159	159	159	0
365	7,217	7,458	7,461	244
366	43	60	60	17
385	1,875	1,995	2,146	271
386	5,828	5,843	5,901	73
389	7,703	7,703	7,703	0
390	5,698	5,701	5,705	7
391	2,322	2,322	2,322	0

TAZ	Total Population			
	2001	2010	2020	2020-2001
400	875	1,137	1,137	262
404	16	16	16	0
405	1	1	9	8
409	0	0	2	2
410	101	101	269	168
436	3,286	4,952	5,078	1,792
437	3,849	4,046	4,047	198
438	9,450	11,957	12,232	2,782
443	6,054	6,193	6,193	139
444	5,222	6,397	6,425	1,203
449	7,057	7,614	7,620	563
450	5,761	6,171	6,201	440
591	2,750	2,752	2,754	4
593	6,040	6,046	6,055	15
595	5,936	5,936	5,936	0
597	6,188	6,189	6,190	2
605	2,704	2,709	2,714	10
606	5,489	5,490	5,491	2
607	4,844	4,849	4,856	12
608	6,290	6,290	6,290	0
609	8,148	8,150	8,305	157
610	4,422	4,428	4,436	14
611	10,465	10,465	10,765	300
612	5,507	5,526	5,675	168
613	2,917	3,236	3,246	329
614	8,277	8,512	8,662	385
615	3,075	3,076	3,077	2
616	4,437	4,762	5,160	723
617	7,192	7,508	7,555	363
618	3,924	3,958	3,977	53
619	3,248	3,309	3,319	71
620	413	419	427	14
621	2,405	2,405	2,405	0
622	864	864	864	0
623	3,310	3,351	3,358	48
624	7,176	7,806	7,811	635
625	16	16	16	0
626	4,443	4,517	4,579	136
627	5,027	5,032	5,038	11
628	4,519	4,604	4,649	130
629	7,877	7,989	8,017	140
632	6,260	6,261	6,263	3
633	7,450	7,473	7,502	52
634	2,009	2,009	2,009	0
635	2,510	2,511	2,512	2
<b>Total</b>	<b>315,092</b>	<b>341,799</b>	<b>346,048</b>	<b>30,956</b>

TAZ	Total Households			
	2001	2010	2020	2020-2001
180	0	0	0	0
181	0	0	0	0
183	0	0	0	0
184	2	2	2	0
187	2	2	2	0
188	5	5	5	0
241	77	78	114	37
243	656	676	753	97
244	445	451	465	20
245	1	1	1	0
246	0	0	33	33
247	0	0	1	1
248	1,813	1,910	2,021	208
251	1,321	1,325	1,330	9
252	103	107	115	12
253	933	942	945	12
256	3,285	3,296	3,314	29
257	2,637	2,651	2,665	28
258	2,236	2,265	2,272	36
345	974	1,743	1,881	907
346	846	943	1,019	173
347	1,336	1,691	1,693	357
348	1,846	1,964	1,976	130
351	2,340	2,698	2,698	358
352	2,394	2,622	2,728	334
354	1,345	1,772	1,774	429
355	2,557	2,707	2,718	161
356	1,348	2,259	2,261	913
357	1,354	1,745	1,754	400
358	1,261	1,660	1,664	403
359	244	704	704	460
360	2,194	2,826	2,838	644
361	1,213	2,104	2,119	906
362	752	941	946	194
363	56	56	56	0
364	57	58	58	1
365	2,609	2,725	2,726	117
366	15	22	22	7
385	667	699	735	68
386	2,062	2,070	2,101	39
389	2,708	2,709	2,709	1
390	2,013	2,015	2,017	4
391	818	818	818	0



TAZ	Total Households			
	2001	2010	2020	2020-2001
400	257	337	337	80
404	6	6	6	0
405	0	0	4	4
409	0	0	1	1
410	38	38	107	69
436	1,276	1,968	2,027	751
437	1,480	1,574	1,575	95
438	3,577	4,637	4,756	1,179
443	2,329	2,401	2,401	72
444	1,989	2,510	2,518	529
449	2,715	2,961	2,962	247
450	2,181	2,360	2,367	186
591	1,034	1,035	1,037	3
593	2,292	2,294	2,298	6
595	2,251	2,253	2,254	3
597	2,329	2,332	2,332	3
605	1,119	1,120	1,130	11
606	2,281	2,281	2,281	0
607	2,005	2,006	2,008	3
608	2,615	2,615	2,620	5
609	3,506	3,512	3,563	57
610	1,918	1,923	1,928	10
611	4,655	4,670	4,784	129
612	2,337	2,372	2,472	135
613	1,366	1,517	1,526	160
614	3,677	3,868	4,061	384
615	1,273	1,274	1,274	1
616	1,804	1,975	2,163	359
617	2,985	3,151	3,171	186
618	1,624	1,654	1,675	51
619	1,352	1,390	1,395	43
620	164	166	167	3
621	994	994	1,006	12
622	326	326	326	0
623	1,362	1,384	1,417	55
624	2,988	3,278	3,280	292
625	6	6	6	0
626	1,985	2,040	2,086	101
627	2,080	2,081	2,085	5
628	1,883	1,929	1,971	88
629	3,271	3,345	3,374	103
632	2,353	2,361	2,361	8
633	2,782	2,788	2,795	13
634	757	757	757	0
635	944	945	945	1
<b>Total</b>	<b>126,691</b>	<b>137,696</b>	<b>139,662</b>	<b>12,971</b>

TAZ	Total Employment			
	2001	2010	2020	2020-2001
180	15	113	187	172
181	16	113	185	169
183	26	185	308	282
184	30	205	326	296
187	0	0	19	19
188	185	229	470	285
241	300	450	627	327
243	234	399	414	180
244	30	37	72	42
245	25	790	875	850
246	15	36	745	730
247	16	16	16	0
248	1,336	1,336	1,341	5
251	307	307	307	0
252	76	91	107	31
253	86	86	86	0
256	3,767	3,767	3,767	0
257	1,016	1,016	1,016	0
258	526	526	526	0
345	1,457	1,472	1,729	272
346	918	1,309	1,683	765
347	414	430	1,394	980
348	1,598	1,598	1,878	280
351	240	245	248	8
352	330	330	330	0
354	465	465	465	0
355	1,166	1,166	1,166	0
356	45	59	68	23
357	378	390	412	34
358	124	129	130	6
359	104	109	113	9
360	1,554	1,916	2,551	997
361	463	472	479	16
362	1,727	1,733	1,760	33
363	905	2,255	3,130	2,225
364	1,027	1,028	1,028	1
365	624	657	657	33
366	668	1,294	1,349	681
385	1,021	1,284	1,380	359
386	1,013	1,980	2,309	1,296
389	4,685	4,880	5,052	367
390	1,508	1,875	2,011	503
391	398	412	419	21

TAZ	Total Employment			
	2001	2010	2020	2020-2001
400	4	4	4	0
404	220	673	1,075	855
405	161	360	536	375
409	133	499	884	751
410	62	69	81	19
436	800	1,200	1,413	613
437	1,726	1,726	1,726	0
438	2,388	3,491	4,108	1,720
443	1,331	1,517	1,517	186
444	1,058	1,164	1,164	106
449	1,857	1,891	1,891	34
450	1,735	1,735	1,735	0
591	1,265	1,265	1,265	0
593	1,414	1,414	1,414	0
595	2,935	3,327	3,327	392
597	720	720	720	0
605	428	428	429	1
606	1,254	1,254	1,263	9
607	692	692	692	0
608	1,211	1,211	1,211	0
609	2,639	2,639	2,665	26
610	9,143	9,143	9,143	0
611	1,937	1,937	1,981	44
612	8,673	8,727	8,732	59
613	13,095	13,656	13,696	601
614	8,357	8,461	8,670	313
615	678	678	678	0
616	830	830	830	0
617	2,554	2,554	2,554	0
618	773	773	773	0
619	672	672	672	0
620	1,345	1,345	1,345	0
621	1,228	1,228	1,228	0
622	2,953	2,953	2,953	0
623	848	848	848	0
624	956	956	956	0
625	9	9	9	0
626	2,308	2,308	2,308	0
627	998	998	998	0
628	721	721	721	0
629	1,355	1,355	1,355	0
632	1,867	1,867	1,867	0
633	1,483	1,483	1,483	0
634	39	39	39	0
635	861	861	861	0
<b>Total</b>	<b>118,554</b>	<b>128,871</b>	<b>136,955</b>	<b>18,401</b>

TAZ	2001 Person/ Household	2010 Person/ Household	2020 Person/ Household
180	N/A	N/A	N/A
181	N/A	N/A	N/A
183	N/A	N/A	N/A
184	3.00	3.00	3.00
187	2.00	2.00	2.00
188	3.20	3.20	3.20
241	3.81	3.77	3.18
243	3.82	3.79	3.75
244	2.41	2.41	2.39
245	1.00	1.00	1.00
246	N/A	N/A	3.58
247	N/A	N/A	4.00
248	1.70	1.69	1.68
251	1.66	1.66	1.66
252	1.73	1.72	1.70
253	1.66	1.64	1.65
256	1.73	1.73	1.74
257	1.70	1.70	1.71
258	1.65	1.63	1.63
345	2.86	2.70	2.61
346	2.82	2.84	2.94
347	2.83	2.81	2.81
348	2.71	2.68	2.68
351	2.84	2.82	2.82
352	2.85	2.85	2.91
354	2.84	2.81	2.81
355	2.80	2.78	2.78
356	2.76	2.72	2.72
357	2.79	2.74	2.74
358	2.74	2.71	2.71
359	2.73	2.70	2.70
360	2.79	2.76	2.76
361	2.76	2.72	2.72
362	2.65	2.63	2.62
363	2.82	2.82	2.82
364	2.79	2.74	2.74
365	2.77	2.74	2.74
366	2.87	2.73	2.73
385	2.81	2.85	2.92
386	2.83	2.82	2.81
389	2.84	2.84	2.84
390	2.83	2.83	2.83
391	2.84	2.84	2.84

TAZ	2001 Person/ Household	2010 Person/ Household	2020 Person/ Household
400	3.40	3.37	3.37
404	2.67	2.67	2.67
405	N/A	N/A	2.25
409	N/A	N/A	2.00
410	2.66	2.66	2.51
436	2.58	2.52	2.51
437	2.60	2.57	2.57
438	2.64	2.58	2.57
443	2.60	2.58	2.58
444	2.63	2.55	2.55
449	2.60	2.57	2.57
450	2.64	2.61	2.62
591	2.66	2.66	2.66
593	2.64	2.64	2.63
595	2.64	2.63	2.63
597	2.66	2.65	2.65
605	2.42	2.42	2.40
606	2.41	2.41	2.41
607	2.42	2.42	2.42
608	2.41	2.41	2.40
609	2.32	2.32	2.33
610	2.31	2.30	2.30
611	2.25	2.24	2.25
612	2.36	2.33	2.30
613	2.14	2.13	2.13
614	2.25	2.20	2.13
615	2.42	2.41	2.42
616	2.46	2.41	2.39
617	2.41	2.38	2.38
618	2.42	2.39	2.37
619	2.40	2.38	2.38
620	2.52	2.52	2.56
621	2.42	2.42	2.39
622	2.65	2.65	2.65
623	2.43	2.42	2.37
624	2.40	2.38	2.38
625	2.67	2.67	2.67
626	2.24	2.21	2.20
627	2.42	2.42	2.42
628	2.40	2.39	2.36
629	2.41	2.39	2.38
632	2.66	2.65	2.65
633	2.68	2.68	2.68
634	2.65	2.65	2.65
635	2.66	2.66	2.66
<b>Total</b>	<b>2.49</b>	<b>2.48</b>	<b>2.48</b>

# **APPENDIX B**

Highway Network Data for 2001, 2010, and 2020:  
Facility Type, Area Type, Number of Lanes, and Daily Volumes



			Year 2001 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
Northern Avenue	SR-51	16th Street	Arterial	Urban Fringe	2	3	31,100
Northern Avenue	16th Street	12th Street	Arterial	Urban Fringe	2	3	49,300
Northern Avenue	12th Street	7th Street	Arterial	Urban Fringe	2	3	46,100
Northern Avenue	7th Street	Central Avenue	Arterial	Urban	2	3	40,900
Northern Avenue	Central Avenue	7th Avenue	Arterial	Urban	2	3	40,100
Northern Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe/Urban	2	3	40,100
Northern Avenue	19th Avenue	I-17	Arterial	Urban	3	3	44,500
Northern Avenue	I-17	35th Avenue	Arterial	Urban	2	3	39,700
Northern Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	38,700
Northern Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	37,000
Northern Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	33,700
Northern Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	2	29,600
Northern Avenue	67th Avenue	75th Avenue	Arterial	Urban/Suburban	2	2	20,000
Northern Avenue	75th Avenue	83rd Avenue	Arterial	Suburban	2	2	11,100
Northern Avenue	83rd Avenue	91st Avenue	Arterial	Suburban	2	2	9,000
Northern Avenue	91st Avenue	Loop 101	Arterial	Suburban	2	2	12,100
Northern Avenue	Loop 101	99th Avenue	Arterial	Suburban	2	2	16,900
Northern Avenue	99th Avenue	107th Avenue	Arterial	Suburban	1/2	1/2	20,600
Northern Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban	1/2	1/2	3,800
Northern Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban/Rural	1	1	5,400
Northern Avenue	Dysart Road	Lichfield Road	Arterial	Suburban/Rural	1	1	3,600
Northern Avenue	Lichfield Road	Reems Road	Arterial	Suburban/Rural	1	1	5,100
Northern Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	2,800
Northern Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	2,400
Olive Avenue	12th Street	7th Street	Collector	Urban Fringe	1	1	10,400
Olive Avenue	7th Street	Central Avenue	Arterial	Urban Fringe	2	3	39,300
Olive Avenue	Central Avenue	7th Avenue	Arterial	Urban Fringe	2	3	39,000
Olive Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe	2	3	39,700
Olive Avenue	19th Avenue	I-17	Arterial	Urban	2/3	3	47,200
Olive Avenue	I-17	35th Avenue	Arterial	Urban	3	3	55,500
Olive Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	39,600
Olive Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	36,100
Olive Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	34,600
Olive Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	3	37,200
Olive Avenue	67th Avenue	75th Avenue	Arterial	Urban/Suburban	2	2	26,800
Olive Avenue	75th Avenue	83rd Avenue	Arterial	Suburban	2	2	19,800
Olive Avenue	83rd Avenue	91st Avenue	Arterial	Suburban	2	2	13,900
Olive Avenue	91st Avenue	Loop 101	Arterial	Suburban	2	2	13,900
Olive Avenue	Loop 101	99th Avenue	Arterial	Suburban	2	2	15,300
Olive Avenue	99th Avenue	107th Avenue	Arterial	Suburban	2	2	24,800
Olive Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban	2	2	10,000
Olive Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	3,600
Olive Avenue	Dysart Road	Lichfield Road	Arterial	Rural	1	1	4,600
Olive Avenue	Lichfield Road	Reems Road	Arterial	Rural	1	1	5,100
Olive Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	2,800
Olive Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	2,400
Peoria Avenue	7th Avenue	19th Avenue	Collector	Urban Fringe	1	1	11,700
Peoria Avenue	19th Avenue	I-17	Arterial	Urban	2/3	2	45,400
Peoria Avenue	I-17	35th Avenue	Arterial	Urban	3	3	51,800
Peoria Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	36,400
Peoria Avenue	43rd Avenue	51st Avenue	Arterial	Urban/Urban Fringe	2	3	36,700
Peoria Avenue	51st Avenue	59th Avenue	Arterial	Urban/Urban Fringe	2	3	34,300
Peoria Avenue	59th Avenue	67th Avenue	Arterial	Urban/Urban Fringe	2	3	34,700
Peoria Avenue	67th Avenue	75th Avenue	Arterial	Urban Fringe/Suburban	2	2	28,400
Peoria Avenue	75th Avenue	83rd Avenue	Arterial	Suburban	2	2	30,900

			Year 2001 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
Peoria Avenue	83rd Avenue	91st Avenue	Arterial	Suburban	2	2	22,100
Peoria Avenue	91st Avenue	Loop 101	Arterial	Suburban	2	2	22,100
Peoria Avenue	Loop 101	99th Avenue	Arterial	Suburban	2	2	29,800
Peoria Avenue	I	103rd Avenue	Arterial	Suburban	1	1	11,900
Peoria Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	1	1	8,500
Peoria Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	500
Peoria Avenue	Dysart Road	Lichfield Road	Arterial	Rural	1	1	700
Peoria Avenue	Lichfield Road	Reems Road	Arterial	Rural	1	1	1,000
Peoria Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	500
Peoria Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	400
<b>Cactus Road</b>	SR-51	24th Street	Arterial	Urban Fringe	3	3	47,600
Cactus Road	24th Street	Cave Creek Rd.	Arterial	Urban Fringe	3	3	56,800
Cactus Road	19th Avenue	I-17	Arterial	Urban Fringe/Urban	2	2	35,200
Cactus Road	I-17	35th Avenue	Arterial	Urban Fringe	2	3	44,000
Cactus Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe/Urban	2	3	36,700
Cactus Road	43rd Avenue	51st Avenue	Arterial	Urban Fringe/Urban	2	3	36,100
Cactus Road	51st Avenue	59th Avenue	Arterial	Urban Fringe	2	2/3	31,000
Cactus Road	59th Avenue	67th Avenue	Arterial	Urban Fringe	2	2	28,300
Cactus Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	27,000
Cactus Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	22,200
Cactus Road	83rd Avenue	91st Avenue	Arterial	Urban Fringe	1/2	1/2	9,400
Cactus Road	Dysart Road	Lichfield Road	Arterial	Rural	1	1	600
Cactus Road	Lichfield Road	Reems Road	Arterial	Rural	1	1	200
Cactus Road	Reems Road	Sarival Road	Arterial	Rural	1	1	20
Cactus Road	Sarival Road	Loop 303	Arterial	Rural	1	1	10
<b>Thunderbird Road</b>	Cave Creek Rd.	7th Street	Arterial	Urban Fringe	3	3	45,900
Thunderbird Road	7th Street	19th Avenue	Arterial	Urban Fringe	3	3	47,100
Thunderbird Road	19th Avenue	I-17	Arterial	Urban Fringe	2	2	35,300
Thunderbird Road	I-17	35th Avenue	Arterial	Urban Fringe	2	2	36,900
Thunderbird Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe	3	3	40,500
Thunderbird Road	43rd Avenue	51st Avenue	Arterial	Urban Fringe	3	3	38,000
Thunderbird Road	51st Avenue	59th Avenue	Arterial	Urban Fringe	2	3	37,900
Thunderbird Road	59th Avenue	67th Avenue	Arterial	Urban Fringe	2	3	27,700
Thunderbird Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	27,400
Thunderbird Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	24,300
Thunderbird Road	83rd Avenue	Loop 101	Arterial	Urban Fringe	2	2	33,300
Thunderbird Road	Loop 101	91st Avenue	Arterial	Urban Fringe	2	2	33,600
Thunderbird Road	91st Avenue	99th Avenue	Arterial	Urban Fringe	2	2	23,300
Thunderbird Road	99th Avenue	103rd Avenue	Arterial	Suburban	2	2	10,500
Thunderbird Road	103rd Avenue	107th Avenue	Arterial	Suburban	2	2	11,800
<b>Waddell Road</b>	Grand Avenue	El Mirage Avenue	Arterial	Suburban	1	1	8,300
Waddell Road	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	6,200
Waddell Road	Dysart Road	Lichfield Road	Arterial	Rural	1	1	4,400
Waddell Road	Lichfield Road	Reems Road	Arterial	Rural	1	1	4,400
Waddell Road	Reems Road	Sarival Road	Arterial	Rural	1	1	4,800
Waddell Road	Sarival Road	Loop 303	Arterial	Rural	1	1	4,100
<b>SR-51</b>	Northern Avenue	Shea Blvd.	Freeway	Urban Fringe	3	3/4	167,500
SR-51	Shea Blvd.	Cactus Road	Freeway	Urban Fringe	3	3	106,100
SR-51	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	77,900
<b>32nd Street</b>	SR-51	Shea Blvd.	Arterial	Urban Fringe	3	2	11,500
32nd Street	Shea Blvd.	Cactus Road	Arterial	Urban Fringe	3	2	20,400
32nd Street	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	24,800
<b>24th Street</b>	Shea Blvd.	Cactus Road	Collector	Urban Fringe	1	1	9,500
<b>Cave Creek Road</b>	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	2	32,400
Cave Creek Road	Dunlap Road	Cactus Road	Arterial	Urban Fringe	2	2	39,800
<b>12th Street</b>	Northern Avenue	Olive Avenue	Collector	Urban Fringe	1	1	11,700
12th Street	Olive Avenue	Dunlap Road	Collector	Urban Fringe	1	1	9,900
<b>7th Street</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	39,200
7th Street	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Street	Dunlap Road	Thunderbird Road	Arterial	Urban Fringe	3	2/3	47,000

			Year 2001 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
<b>Central Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	1	30,100
Central Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	1	
<b>7th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	36,600
7th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Avenue	Dunlap Road	Peoria Avenue	Collector	Urban Fringe	2	2	11,700
<b>19th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	39,700
19th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban	3	2	41,100
19th Avenue	Dunlap Road	Peoria Avenue	Arterial	Urban	3	2	42,600
19th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban/Urban Fringe	3	2	39,300
19th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	44,800
<b>I-17</b>	Northern Avenue	Olive Avenue	Freeway	Urban	3	3	
I-17	Olive Avenue	Peoria Avenue	Freeway	Urban	3	3	
I-17	Peoria Avenue	Cactus Road	Freeway	Urban	3	3	
I-17	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	
<b>35th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	39,100
35th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	46,100
35th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	36,000
35th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	37,700
<b>43rd Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	37,600
43rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	2	37,300
43rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	35,300
43rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	34,900
<b>51st Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	37,400
51st Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2/3	2	34,600
51st Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	3	2	35,300
51st Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	41,400
<b>59th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	2	2	30,400
59th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	33,100
59th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	3	2/3	38,200
59th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	34,500
<b>67th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	2	2	26,000
67th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	25,500
67th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	27,000
67th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	26,400
<b>75th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	2	2	25,700
75th Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	25,800
75th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	23,500
75th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	1/2	1/3	19,300
<b>83rd Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	17,500
83rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	16,300
83rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	24,500
83rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	22,600
<b>91st Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	2	2	20,300
91st Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	14,400
91st Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	1/2	1/2	9,300
91st Avenue	Grand Avenue	Cactus Road	Arterial	Urban Fringe	1	1	
<b>Loop 101</b>	Northern Avenue	Olive Avenue	Freeway	Suburban	3	3	95,100
Loop 101	Olive Avenue	Peoria Avenue	Freeway	Suburban	3	3	92,800
Loop 101	Peoria Avenue	Grand Avenue	Freeway	Urban Fringe	3	3	89,400
Loop 101	Grand Avenue	Thunderbird Road	Freeway	Urban Fringe	3	3	73,000
<b>99th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	10,800
99th Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	12,700
99th Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	2	2	18,300
99th Avenue	Grand Avenue	Thunderbird Road	Arterial	Urban Fringe	2	2	27,700
<b>103rd Avenue</b>	Peoria Avenue	Grand Avenue	Collector	Suburban	1	1	7,000
103rd Avenue	Grand Avenue	Thunderbird Road	Collector	Suburban	1	1	8,600
<b>107th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	2	2	13,900
107th Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	12,300
107th Avenue	Peoria Avenue	Grand Avenue	Arterial	Suburban	1	1	14,900
107th Avenue	Grand Avenue	Thunderbird Road	Arterial	Suburban	2	2	18,400

			Year 2001 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
<b>El Mirage Road</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	9,300
El Mirage Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	8,600
El Mirage Road	Peoria Avenue	Waddell Road	Arterial	Suburban	1	1	9,800
<b>Dysart Road</b>	Northern Avenue	Olive Avenue	Arterial	Suburban/Rural	1	1	8,200
Dysart Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	6,900
Dysart Road	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	6,600
Dysart Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	7,300
<b>Lichfield Road</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	7,400
Lichfield Road	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	6,700
Lichfield Road	Peoria Avenue	Cactus Road	Arterial	Rural	2	2	7,200
Lichfield Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	7,000
<b>Reems Road</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	2,400
Reems Road	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	2,900
Reems Road	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	2,700
Reems Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	2,900
<b>Sarival Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	4,600
Sarival Avenue	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	3,300
Sarival Avenue	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	3,000
Sarival Avenue	Cactus Road	Waddell Road	Arterial	Rural	1	1	3,000
<b>Loop 303</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	3,800
Loop 303	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	3,400
Loop 303	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	3,900
Loop 303	Cactus Road	Waddell Road	Arterial	Rural	1	1	3,900
<b>Grand Avenue</b>	67th & Northern	75th & Olive	Arterial	Urban/Suburban	3	3	32,300
Grand Avenue	75th & Olive	83rd & Peoria	Arterial	Suburban	3	3	34,200
Grand Avenue	83rd & Peoria	91st Avenue	Arterial	Urban Fringe	3	3	34,800
Grand Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	3	3	37,000
Grand Avenue	Loop 101	99th Avenue	Arterial	Suburban	3	3	53,700
Grand Avenue	99th Avenue	103rd Avenue	Arterial	Suburban	3	3	48,100
Grand Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	3	3	42,100
Grand Avenue	107th Avenue	Waddell Road	Arterial	Suburban	3	3	56,100

			Year 2010 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NE	WB/SB	
Northern Avenue	SR-51	16th Street	Arterial	Urban Fringe	2	3	32,000
Northern Avenue	16th Street	12th Street	Arterial	Urban Fringe	2	3	
Northern Avenue	12th Street	7th Street	Arterial	Urban Fringe	2	3	
Northern Avenue	7th Street	Central Avenue	Arterial	Urban	2	3	
Northern Avenue	Central Avenue	7th Avenue	Arterial	Urban	2	3	
Northern Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe/Urban	2	3	39,100
Northern Avenue	19th Avenue	I-17	Arterial	Urban	3	3	45,400
Northern Avenue	I-17	35th Avenue	Arterial	Urban	2	3	40,900
Northern Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	40,800
Northern Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	39,100
Northern Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	37,300
Northern Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	2	33,000
Northern Avenue	67th Avenue	75th Avenue	Arterial	Urban Fringe/Suburban	2	2	31,400
Northern Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe/Suburban	2	2	22,600
Northern Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe/Suburban	2	2	13,900
Northern Avenue	91st Avenue	Loop 101	Arterial	Suburban	2	2	19,700
Northern Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	2	2	
Northern Avenue	99th Avenue	107th Avenue	Arterial	Urban Fringe	1/2	1/2	20,400
Northern Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban/UF/Rural	1/2	1/2	8,500
Northern Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban/Rural	1	1	8,800
Northern Avenue	Dysart Road	Lichfield Road	Arterial	Suburban/Rural	1	1	8,600
Northern Avenue	Lichfield Road	Reems Road	Arterial	Suburban/Rural	1	1	8,700
Northern Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	5,000
Northern Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	
Olive Avenue	12th Street	7th Street	Collector	Urban Fringe	1	1	
Olive Avenue	7th Street	Central Avenue	Arterial	Urban Fringe	2	3	
Olive Avenue	Central Avenue	7th Avenue	Arterial	Urban Fringe	2	3	
Olive Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe	2	3	40,500
Olive Avenue	19th Avenue	I-17	Arterial	Urban	2/3	3	48,400
Olive Avenue	I-17	35th Avenue	Arterial	Urban	3	3	57,000
Olive Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	41,400
Olive Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	38,400
Olive Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	36,500
Olive Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	3	38,800
Olive Avenue	67th Avenue	75th Avenue	Arterial	Urban	2	2	34,800
Olive Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	27,000
Olive Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	2	27,200
Olive Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	2	2	21,600
Olive Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	2	2	16,900
Olive Avenue	99th Avenue	107th Avenue	Arterial	Urban Fringe	2	2	24,400
Olive Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban/Urban Fringe	2	2	16,100
Olive Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	10,400
Olive Avenue	Dysart Road	Lichfield Road	Arterial	Rural	1	1	7,300
Olive Avenue	Lichfield Road	Reems Road	Arterial	Rural	1	1	8,200
Olive Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	5,200
Olive Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	
Peoria Avenue	7th Avenue	19th Avenue	Collector	Urban Fringe	1	1	11,100
Peoria Avenue	19th Avenue	I-17	Arterial	Urban	2/3	2	44,800
Peoria Avenue	I-17	35th Avenue	Arterial	Urban	3	3	53,000
Peoria Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	38,700
Peoria Avenue	43rd Avenue	51st Avenue	Arterial	Urban/Urban Fringe	2	3	39,100
Peoria Avenue	51st Avenue	59th Avenue	Arterial	Urban/Urban Fringe	2	3	37,200
Peoria Avenue	59th Avenue	67th Avenue	Arterial	Urban/Urban Fringe	2	3	36,100
Peoria Avenue	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	31,800
Peoria Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	30,800

			Year 2010 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
Peoria Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	2	23,100
Peoria Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	2	2	20,200
Peoria Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	2	2	29,200
Peoria Avenue	I	103rd Avenue	Arterial	Suburban	1	1	13,400
Peoria Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	1	1	8,900
Peoria Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	2,100
Peoria Avenue	Dysart Road	Lichfield Road	Arterial	Rural	1	1	3,700
Peoria Avenue	Lichfield Road	Reems Road	Arterial	Rural	1	1	4,200
Peoria Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	4,100
Peoria Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	3,900
<b>Cactus Road</b>	SR-51	24th Street	Arterial	Urban Fringe	3	3	47,600
Cactus Road	24th Street	Cave Creek Rd.	Arterial	Urban Fringe	3	3	
Cactus Road	19th Avenue	I-17	Arterial	Urban Fringe/Urban	2	2	36,100
Cactus Road	I-17	35th Avenue	Arterial	Urban Fringe	2	3	46,000
Cactus Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe/Urban	2	3	39,100
Cactus Road	43rd Avenue	51st Avenue	Arterial	Urban Fringe/Urban	2	3	38,000
Cactus Road	51st Avenue	59th Avenue	Arterial	Urban Fringe	2	2/3	34,700
Cactus Road	59th Avenue	67th Avenue	Arterial	Urban Fringe	2	2	31,700
Cactus Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	30,600
Cactus Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	27,900
Cactus Road	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	2	17,800
Cactus Road	Dysart Road	Lichfield Road	Arterial	Rural	1	1	900
Cactus Road	Lichfield Road	Reems Road	Arterial	Rural	1	1	1,000
Cactus Road	Reems Road	Sarival Road	Arterial	Rural	1	1	1,400
Cactus Road	Sarival Road	Loop 303	Arterial	Rural	1	1	800
<b>Thunderbird Road</b>	Cave Creek Rd.	7th Street	Arterial	Urban Fringe	3	3	45,200
Thunderbird Road	7th Street	19th Avenue	Arterial	Urban Fringe	3	3	49,100
Thunderbird Road	19th Avenue	I-17	Arterial	Urban Fringe	2	2	36,400
Thunderbird Road	I-17	35th Avenue	Arterial	Urban Fringe	2	2	36,900
Thunderbird Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe	3	3	45,800
Thunderbird Road	43rd Avenue	51st Avenue	Arterial	Urban Fringe	3	3	43,200
Thunderbird Road	51st Avenue	59th Avenue	Arterial	Urban Fringe	2	3	40,100
Thunderbird Road	59th Avenue	67th Avenue	Arterial	Urban Fringe	2	3	32,200
Thunderbird Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	32,700
Thunderbird Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	27,400
Thunderbird Road	83rd Avenue	Loop 101	Arterial	Urban Fringe	2	2	37,900
Thunderbird Road	Loop 101	91st Avenue	Arterial	Urban Fringe	2	2	3,600
Thunderbird Road	91st Avenue	99th Avenue	Arterial	Urban Fringe	2	2	30,800
Thunderbird Road	99th Avenue	103rd Avenue	Arterial	Suburban	2	2	12,300
Thunderbird Road	103rd Avenue	107th Avenue	Arterial	Suburban	2	2	13,800
<b>Waddell Road</b>	Grand Avenue	El Mirage Avenue	Arterial	Suburban	1	1	9,300
Waddell Road	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	4,700
Waddell Road	Dysart Road	Lichfield Road	Arterial	Rural	1	1	4,300
Waddell Road	Lichfield Road	Reems Road	Arterial	Rural	1	1	4,000
Waddell Road	Reems Road	Sarival Road	Arterial	Rural	1	1	5,300
Waddell Road	Sarival Road	Loop 303	Arterial	Rural	1	1	5,300
<b>SR-51</b>	Northern Avenue	Shea Blvd.	Freeway	Urban Fringe	3	3/4	
SR-51	Shea Blvd.	Cactus Road	Freeway	Urban Fringe	3	3	
SR-51	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	
<b>32nd Street</b>	SR-51	Shea Blvd.	Arterial	Urban Fringe	3	2	15,100
32nd Street	Shea Blvd.	Cactus Road	Arterial	Urban Fringe	3	2	21,100
32nd Street	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	24,200
<b>24th Street</b>	Shea Blvd.	Cactus Road	Collector	Urban Fringe	1	1	9,400
<b>Cave Creek Road</b>	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	2	33,600
Cave Creek Road	Dunlap Road	Cactus Road	Arterial	Urban Fringe	2	2	41,700
<b>12th Street</b>	Northern Avenue	Olive Avenue	Collector	Urban Fringe	1	1	11,800
12th Street	Olive Avenue	Dunlap Road	Collector	Urban Fringe	1	1	
<b>7th Street</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	40,500
7th Street	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Street	Dunlap Road	Thunderbird Road	Arterial	Urban Fringe	3	2/3	51,300

			Year 2010 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
Central Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	1	30,400
Central Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	1	
7th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	32,100
7th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Avenue	Dunlap Road	Peoria Avenue	Collector	Urban Fringe	2	2	9,000
19th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	40,600
19th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban	3	2	42,000
19th Avenue	Dunlap Road	Peoria Avenue	Arterial	Urban	3	2	44,200
19th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban/Urban Fringe	3	2	41,200
19th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	48,600
I-17	Northern Avenue	Olive Avenue	Freeway	Urban	3	3	
I-17	Olive Avenue	Peoria Avenue	Freeway	Urban	3	3	
I-17	Peoria Avenue	Cactus Road	Freeway	Urban	3	3	
I-17	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	
35th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	40,800
35th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	49,800
35th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	38,900
35th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	42,200
43rd Avenue	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	39,600
43rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	2	40,300
43rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	39,400
43rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	39,900
51st Avenue	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	39,700
51st Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2/3	2	36,600
51st Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	3	2	38,900
51st Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	44,200
59th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban	2	2	32,700
59th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	32,000
59th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	3	2/3	42,200
59th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	40,500
67th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban	2	2	28,800
67th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	31,400
67th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	30,700
67th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	31,600
75th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	29,300
75th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	34,000
75th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	29,100
75th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	28,200
83rd Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	25,900
83rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	1	1	17,900
83rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	29,300
83rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	29,300
91st Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	24,200
91st Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	17,700
91st Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	2	2	18,900
91st Avenue	Grand Avenue	Cactus Road	Arterial	Urban Fringe	2	2	
Loop 101	Northern Avenue	Olive Avenue	Freeway	Urban Fringe	3	3	114,800
Loop 101	Olive Avenue	Peoria Avenue	Freeway	Urban Fringe	3	3	105,700
Loop 101	Peoria Avenue	Grand Avenue	Freeway	Urban Fringe	3	3	103,800
Loop 101	Grand Avenue	Thunderbird Road	Freeway	Urban Fringe	3	3	107,400
99th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	19,200
99th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	23,200
99th Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	2	2	24,400
99th Avenue	Grand Avenue	Thunderbird Road	Arterial	Urban Fringe	2	2	36,300
103rd Avenue	Peoria Avenue	Grand Avenue	Collector	Suburban	1	1	7,400
103rd Avenue	Grand Avenue	Thunderbird Road	Collector	Suburban	1	1	9,100
107th Avenue	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	20,000
107th Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	14,100
107th Avenue	Peoria Avenue	Grand Avenue	Arterial	Suburban	1	1	16,300
107th Avenue	Grand Avenue	Thunderbird Road	Arterial	Suburban	2	2	20,200

			Year 2010 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
<b>El Mirage Road</b>	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	13,000
El Mirage Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	14,700
El Mirage Road	Peoria Avenue	Waddell Road	Arterial	Suburban	1	1	15,400
<b>Dysart Road</b>	Northern Avenue	Olive Avenue	Arterial	Suburban/Rural	1	1	10,300
Dysart Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	1	1	11,300
Dysart Road	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	8,600
Dysart Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	9,000
<b>Lichfield Road</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	9,100
Lichfield Road	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	8,100
Lichfield Road	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	8,200
Lichfield Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	8,200
<b>Reems Road</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	5,900
Reems Road	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	6,300
Reems Road	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	5,800
Reems Road	Cactus Road	Waddell Road	Arterial	Rural	1	1	5,900
<b>Sarival Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Rural	1	1	6,100
Sarival Avenue	Olive Avenue	Peoria Avenue	Arterial	Rural	1	1	5,000
Sarival Avenue	Peoria Avenue	Cactus Road	Arterial	Rural	1	1	5,800
Sarival Avenue	Cactus Road	Waddell Road	Arterial	Rural	1	1	5,900
<b>Loop 303</b>	Northern Avenue	Olive Avenue	Express	Rural	1	1	14,900
Loop 303	Olive Avenue	Peoria Avenue	Express	Rural	1	1	14,300
Loop 303	Peoria Avenue	Cactus Road	Express	Rural	1	1	14,700
Loop 303	Cactus Road	Waddell Road	Express	Rural	1	1	14,700
<b>Grand Avenue</b>	67th & Northern	75th & Olive	Arterial	Urban/Urban Fringe	3	3	52,400
Grand Avenue	75th & Olive	83rd & Peoria	Arterial	Urban Fringe	3	3	46,600
Grand Avenue	83rd & Peoria	91st Avenue	Arterial	Urban Fringe	3	3	45,800
Grand Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	3	3	41,100
Grand Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	3	3	
Grand Avenue	99th Avenue	103rd Avenue	Arterial	Suburban	3	3	54,200
Grand Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	3	3	47,900
Grand Avenue	107th Avenue	Waddell Road	Arterial	Suburban	3	3	65,300



			Year 2020 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
<b>Northern Avenue</b>	SR-51	16th Street	Arterial	Urban Fringe	2	3	39,600
Northern Avenue	16th Street	12th Street	Arterial	Urban Fringe	2	3	
Northern Avenue	12th Street	7th Street	Arterial	Urban Fringe	2	3	
Northern Avenue	7th Street	Central Avenue	Arterial	Urban Fringe	2	3	
Northern Avenue	Central Avenue	7th Avenue	Arterial	Urban Fringe	2	3	
Northern Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe	2	3	40,400
Northern Avenue	19th Avenue	I-17	Arterial	Urban	3	3	46,900
Northern Avenue	I-17	35th Avenue	Arterial	Urban	2	3	41,500
Northern Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	42,900
Northern Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	40,800
Northern Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	39,900
Northern Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	3	44,900
Northern Avenue	67th Avenue	75th Avenue	Arterial	Urban Fringe/Urban	2	3	35,400
Northern Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	3	32,500
Northern Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	3	28,800
Northern Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	2	3	29,100
Northern Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	2	3	
Northern Avenue	99th Avenue	107th Avenue	Arterial	Urban Fringe	2	2/3	42,900
Northern Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban/Urban Fringe	2	2	24,300
Northern Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	2	2	20,400
Northern Avenue	Dysart Road	Lichfield Road	Arterial	Suburban	2	2	12,400
Northern Avenue	Lichfield Road	Reems Road	Arterial	Suburban	2	2	6,900
Northern Avenue	Reems Road	Sarival Road	Arterial	Suburban	2	2	5,800
Northern Avenue	Sarival Road	Loop 303	Arterial	Suburban	2	2	
<b>Olive Avenue</b>	12th Street	7th Street	Collector	Urban Fringe	1	1	
Olive Avenue	7th Street	Central Avenue	Arterial	Urban Fringe	2	3	
Olive Avenue	Central Avenue	7th Avenue	Arterial	Urban Fringe	2	3	
Olive Avenue	7th Avenue	19th Avenue	Arterial	Urban Fringe	2	3	42,300
Olive Avenue	19th Avenue	I-17	Arterial	Urban	2/3	3	48,400
Olive Avenue	I-17	35th Avenue	Arterial	Urban	3	3	56,900
Olive Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	42,000
Olive Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	38,800
Olive Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	38,500
Olive Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	3	39,000
Olive Avenue	67th Avenue	75th Avenue	Arterial	Urban/Urban Fringe	2	3	40,000
Olive Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe	3	3	43,100
Olive Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe	3	3	43,500
Olive Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	3	3	
Olive Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	3	3	40,400
Olive Avenue	99th Avenue	107th Avenue	Arterial	Urban Fringe	3	3	38,100
Olive Avenue	107th Avenue	El Mirage Avenue	Arterial	Suburban/Urban Fringe	3	3	38,300
Olive Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	3	3	28,800
Olive Avenue	Dysart Road	Lichfield Road	Arterial	Suburban	3	3	14,400
Olive Avenue	Lichfield Road	Reems Road	Arterial	Suburban	3	3	16,800
Olive Avenue	Reems Road	Sarival Road	Arterial	Suburban	3	3	11,200
Olive Avenue	Sarival Road	Loop 303	Arterial	Suburban	3	3	
<b>Peoria Avenue</b>	7th Avenue	19th Avenue	Collector	Urban Fringe	1	1	10,300
Peoria Avenue	19th Avenue	I-17	Arterial	Urban	2/3	2	45,600
Peoria Avenue	I-17	35th Avenue	Arterial	Urban	3	3	55,300
Peoria Avenue	35th Avenue	43rd Avenue	Arterial	Urban	2	3	39,700
Peoria Avenue	43rd Avenue	51st Avenue	Arterial	Urban	2	3	39,000
Peoria Avenue	51st Avenue	59th Avenue	Arterial	Urban	2	3	37,900
Peoria Avenue	59th Avenue	67th Avenue	Arterial	Urban	2	3	37,400
Peoria Avenue	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	32,800
Peoria Avenue	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	34,900

			Year 2020 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
Peoria Avenue	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	2	34,800
Peoria Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	2	2	
Peoria Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	2	2	33,300
Peoria Avenue	I	103rd Avenue	Arterial	Suburban	2	2	24,500
Peoria Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	2	2	16,100
Peoria Avenue	El Mirage Avenue	Dysart Road	Arterial	Suburban	1	1	5,300
Peoria Avenue	Dysart Road	Lichfield Road	Arterial	Rural	2	2	12,200
Peoria Avenue	Lichfield Road	Reems Road	Arterial	Suburban	1	1	4,800
Peoria Avenue	Reems Road	Sarival Road	Arterial	Rural	1	1	2,300
Peoria Avenue	Sarival Road	Loop 303	Arterial	Rural	1	1	2,100
<b>Cactus Road</b>	SR-51	24th Street	Arterial	Urban Fringe	3	3	49,000
Cactus Road	24th Street	Cave Creek Rd.	Arterial	Urban Fringe	3	3	
Cactus Road	19th Avenue	I-17	Arterial	Urban Fringe/Urban	2	2	34,800
Cactus Road	I-17	35th Avenue	Arterial	Urban Fringe	2	3	45,000
Cactus Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe/Urban	2	3	40,100
Cactus Road	43rd Avenue	51st Avenue	Arterial	Urban	2	3	38,100
Cactus Road	51st Avenue	59th Avenue	Arterial	Urban	2	3	35,900
Cactus Road	59th Avenue	67th Avenue	Arterial	Urban	2	2	34,200
Cactus Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	30,600
Cactus Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	29,200
Cactus Road	83rd Avenue	91st Avenue	Arterial	Urban Fringe	2	2	17,400
Cactus Road	Dysart Road	Lichfield Road	Arterial	Rural	1	1	4,400
Cactus Road	Lichfield Road	Reems Road	Arterial	Rural	1	1	5,300
Cactus Road	Reems Road	Sarival Road	Arterial	Rural	1	1	900
Cactus Road	Sarival Road	Loop 303	Arterial	Rural	1	1	700
<b>Thunderbird Road</b>	Cave Creek Rd.	7th Street	Arterial	Urban Fringe	3	3	48,300
Thunderbird Road	7th Street	19th Avenue	Arterial	Urban Fringe	3	3	52,000
Thunderbird Road	19th Avenue	I-17	Arterial	Urban Fringe	3	3	51,400
Thunderbird Road	I-17	35th Avenue	Arterial	Urban Fringe	3	3	55,500
Thunderbird Road	35th Avenue	43rd Avenue	Arterial	Urban Fringe	3	3	48,000
Thunderbird Road	43rd Avenue	51st Avenue	Arterial	Urban Fringe	3	3	45,600
Thunderbird Road	51st Avenue	59th Avenue	Arterial	Urban	2	3	40,800
Thunderbird Road	59th Avenue	67th Avenue	Arterial	Urban	2	3	32,800
Thunderbird Road	67th Avenue	75th Avenue	Arterial	Urban Fringe	2	2	30,500
Thunderbird Road	75th Avenue	83rd Avenue	Arterial	Urban Fringe	2	2	31,600
Thunderbird Road	83rd Avenue	Loop 101	Arterial	Urban Fringe	2	2	38,300
Thunderbird Road	Loop 101	91st Avenue	Arterial	Urban Fringe	2	2	37,200
Thunderbird Road	91st Avenue	99th Avenue	Arterial	Urban Fringe	2	2	34,500
Thunderbird Road	99th Avenue	103rd Avenue	Arterial	Suburban	2	2	23,300
Thunderbird Road	103rd Avenue	107th Avenue	Arterial	Suburban	2	2	22,400
<b>Waddell Road</b>	Grand Avenue	El Mirage Avenue	Arterial	Suburban	2	2	13,600
Waddell Road	El Mirage Avenue	Dysart Road	Arterial	Suburban	2	2	7,400
Waddell Road	Dysart Road	Lichfield Road	Arterial	Rural	2	2	11,400
Waddell Road	Lichfield Road	Reems Road	Arterial	Rural	2	2	11,300
Waddell Road	Reems Road	Sarival Road	Arterial	Rural	2	2	15,800
Waddell Road	Sarival Road	Loop 303	Arterial	Rural	2	2	13,900
<b>SR-51</b>	Northern Avenue	Shea Blvd.	Freeway	Urban Fringe	3	3/4	
SR-51	Shea Blvd.	Cactus Road	Freeway	Urban Fringe	3	3	
SR-51	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	
<b>32nd Street</b>	SR-51	Shea Blvd.	Arterial	Urban Fringe	3	2	25,100
32nd Street	Shea Blvd.	Cactus Road	Arterial	Urban Fringe	3	2	29,300
32nd Street	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	31,900
<b>24th Street</b>	Shea Blvd.	Cactus Road	Collector	Urban Fringe	1	1	9,900
<b>Cave Creek Road</b>	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	2	34,600
Cave Creek Road	Dunlap Road	Cactus Road	Arterial	Urban Fringe	2	2	42,600
<b>12th Street</b>	Northern Avenue	Olive Avenue	Collector	Urban Fringe	1	1	11,700
12th Street	Olive Avenue	Dunlap Road	Collector	Urban Fringe	1	1	
<b>7th Street</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	41,200
7th Street	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Street	Dunlap Road	Thunderbird Road	Arterial	Urban Fringe	3	2/3	51,200

			Year 2020 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
<b>Central Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	1	30,800
Central Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	2	1	
<b>7th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	38,900
7th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban Fringe	3	2	
7th Avenue	Dunlap Road	Peoria Avenue	Collector	Urban Fringe	2	2	9,300
<b>19th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	3	2	40,600
19th Avenue	Olive Avenue	Dunlap Road	Arterial	Urban	3	2	
19th Avenue	Dunlap Road	Peoria Avenue	Arterial	Urban	3	2	43,400
19th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban/Urban Fringe	3	2	39,900
19th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	50,500
<b>I-17</b>	Northern Avenue	Olive Avenue	Freeway	Urban	3	3	
I-17	Olive Avenue	Peoria Avenue	Freeway	Urban	3	3	
I-17	Peoria Avenue	Cactus Road	Freeway	Urban	3	3	
I-17	Cactus Road	Thunderbird Road	Freeway	Urban Fringe	3	3	
<b>35th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	40,900
35th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	2	2	49,200
35th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	38,700
35th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	42,200
<b>43rd Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	39,900
43rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	2	38,900
43rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	38,800
43rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2	41,000
<b>51st Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	39,800
51st Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	2	38,900
51st Avenue	Peoria Avenue	Cactus Road	Arterial	Urban/Urban Fringe	3	2	38,800
51st Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	3	2/3	46,300
<b>59th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2/3	46,300
59th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	3	44,100
59th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2/3	44,400
59th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban	3	2	42,400
<b>67th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban	3	2	47,400
67th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban	3	2	38,600
67th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban	3	2	39,000
67th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban	3	2	41,400
<b>75th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	29,100
75th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	36,800
75th Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	29,700
75th Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	32,600
<b>83rd Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	29,900
83rd Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	33,100
83rd Avenue	Peoria Avenue	Cactus Road	Arterial	Urban Fringe	2	2	34,900
83rd Avenue	Cactus Road	Thunderbird Road	Arterial	Urban Fringe	2	2	36,300
<b>91st Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	25,200
91st Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	20,400
91st Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	2	2	20,400
91st Avenue	Grand Avenue	Cactus Road	Arterial	Urban Fringe	2	2	
<b>Loop 101</b>	Northern Avenue	Olive Avenue	Freeway	Urban Fringe	3	3	119,400
Loop 101	Olive Avenue	Peoria Avenue	Freeway	Urban Fringe	3	3	
Loop 101	Peoria Avenue	Grand Avenue	Freeway	Urban Fringe	3	3	
Loop 101	Grand Avenue	Thunderbird Road	Freeway	Urban Fringe	3	3	135,100
<b>99th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	24,000
99th Avenue	Olive Avenue	Peoria Avenue	Arterial	Urban Fringe	2	2	19,000
99th Avenue	Peoria Avenue	Grand Avenue	Arterial	Urban Fringe	2	2	20,600
99th Avenue	Grand Avenue	Thunderbird Road	Arterial	Urban Fringe	2	2	38,900
<b>103rd Avenue</b>	Peoria Avenue	Grand Avenue	Collector	Suburban	2	2	11,800
103rd Avenue	Grand Avenue	Thunderbird Road	Collector	Suburban	2	2	16,700
<b>107th Avenue</b>	Northern Avenue	Olive Avenue	Arterial	Urban Fringe	2	2	17,500
107th Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	24,500
107th Avenue	Peoria Avenue	Grand Avenue	Arterial	Suburban	2	2	30,300
107th Avenue	Grand Avenue	Thunderbird Road	Arterial	Suburban	2	2	30,800

			Year 2020 Network Data				
Roadway	From	To	Facility Type	Area Type	Number of Lanes		24-Hour Volume
					EB/NB	WB/SB	
El Mirage Road	Northern Avenue	Olive Avenue	Arterial	Suburban	2	2	19,900
El Mirage Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	24,200
El Mirage Road	Peoria Avenue	Waddell Road	Arterial	Suburban	2	2	22,200
Dysart Road	Northern Avenue	Olive Avenue	Arterial	Suburban	3	3	30,200
Dysart Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	3	3	37,300
Dysart Road	Peoria Avenue	Cactus Road	Arterial	Rural	3	3	31,600
Dysart Road	Cactus Road	Waddell Road	Arterial	Rural	3	3	30,800
Lichfield Road	Northern Avenue	Olive Avenue	Arterial	Suburban	2	2	18,200
Lichfield Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	12,300
Lichfield Road	Peoria Avenue	Cactus Road	Arterial	Rural	2	2	21,700
Lichfield Road	Cactus Road	Waddell Road	Arterial	Rural	2	2	20,700
Reems Road	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	1,500
Reems Road	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	3,200
Reems Road	Peoria Avenue	Cactus Road	Arterial	Rural	2	2	3,300
Reems Road	Cactus Road	Waddell Road	Arterial	Rural	2	2	7,100
Sarival Avenue	Northern Avenue	Olive Avenue	Arterial	Suburban	1	1	8,000
Sarival Avenue	Olive Avenue	Peoria Avenue	Arterial	Suburban	2	2	3,100
Sarival Avenue	Peoria Avenue	Cactus Road	Arterial	Rural	2	2	3,100
Sarival Avenue	Cactus Road	Waddell Road	Arterial	Rural	2	2	3,100
Loop 303	Northern Avenue	Olive Avenue	Express	Suburban	2	2	31,100
Loop 303	Olive Avenue	Peoria Avenue	Express	Suburban	2	2	27,800
Loop 303	Peoria Avenue	Cactus Road	Express	Rural	2	2	28,700
Loop 303	Cactus Road	Waddell Road	Express	Rural	2	2	28,600
Grand Avenue	67th & Northern	75th & Olive	Arterial	Urban/Urban Fringe	3	3	134,300
Grand Avenue	75th & Olive	83rd & Peoria	Arterial	Urban Fringe	3	3	119,500
Grand Avenue	83rd & Peoria	91st Avenue	Arterial	Urban Fringe	3	3	99,900
Grand Avenue	91st Avenue	Loop 101	Arterial	Urban Fringe	3	3	78,300
Grand Avenue	Loop 101	99th Avenue	Arterial	Urban Fringe	3	3	76,400
Grand Avenue	99th Avenue	103rd Avenue	Arterial	Suburban	3	3	55,600
Grand Avenue	103rd Avenue	107th Avenue	Arterial	Suburban	3	3	48,400
Grand Avenue	107th Avenue	Waddell Road	Arterial	Suburban	3	3	71,900